Map of parcels at 37 kft on 07071418 influenced by convection 0.0 to 2.5 days earlier Squares indicate location of convectively influenced air: influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07071418 2.5 2.0 Days Since Convection 1.5 1.0 0.5 0.0 NA\$A/ARC Last Image Used is 0707140545 1443 Trajectories

Map of parcels at 37 kft on 07071418 influenced by convection 2.5 to 5.0 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07071418 5.0 4.5 Days Since Convection 4.0 3.5 3.0 2.5 NASA/ARC **PSL** Last Image Used is 0707140545. 1443 Trajectories

Map of parcels at 37 kft on 07071418 influenced by convection 5.0 to 7.5 days earlier Squares indicate location of convectively influenced air -- influence calculated only within black box Crosses indicate locations where back trajectories from squares intersect convection Cross, square, and trajectory colors indicate elapsed time between convection and 07071418 7.5 7.0 Days Since Convection 6.5 6.0 5.5 5.0 NASA/ARC **PSL** Last Image Used is 0707140545 1443 Trajectories

Map of parcels at 37 kft on 07071418 influenced by convection 7.5 to 10.0 days earlier Squares indicate location of convectively influenced air influence calculated only within black box: Crosses indicate locations where back trajectories from squares intersect convection + Cross, square, and trajectory colors indicate elapsed time between convection and 07071418 10.0 9.5 Days Since Convection 9.0 8.5 8.0 NASA/ARC **PSL** Last Image Used is 0707140545 1443 Trajectories